

I claim:

1. A connector for optionally connecting a stripper rubber to drilling head equipment of a well, the connector comprising:
 - (a) a generally cylindrical adapter connectable to the equipment, wherein the adapter defines a primary bore to accommodate a down hole tubular, the adapter further comprising:
 - (i) one or more cam pin bores substantially parallel to the primary bore and adapted to house one or more cam pins;
 - (ii) one or more cam lock bores adapted to house one or more at least partially rotatable cam locks, wherein the cam lock bores are offset from the cam pin bores such that the cam pin bores and cam lock bores partially intersect to form an aperture through which the cam locks engage the cam pins;
 - (b) one or more cam pins, wherein the cam pins attach to the stripper rubber so as to be insertable into the cam pin bores of the adapter;
 - and
 - (c) one or more at least partially rotatable cam locks housed in the cam lock bores of the adapter and which optionally engage the cam pins to optionally connect the stripper rubber to the adapter.

2. The connector of claim 1, wherein the cam pins further comprise a threaded end and a pin end, whereby the cam pins optionally threadedly attach to the stripper rubber assembly at the threaded end and insert into the cam pin bores of the adapter at the pin end.
3. The connector of claim 1, wherein the stripper rubber assembly comprises an insert at least partially embedded in the stripper rubber assembly, wherein the cam pins attach to the insert of the stripper rubber assembly.
4. The connector of claim 1, further comprising a bearing assembly mounted on the adapter.
5. The connector of claim 1, further comprising an elastic seal between the adapter and the stripper rubber assembly or the barrel.
6. The connector of claim 1, wherein the cam lock bores are substantially perpendicular to the cam pin bores.
7. The connector of claim 1, wherein the cam lock bores are oriented obliquely to the cam pin bores.
8. The connector of claim 1, further comprising biased cam locks that engage the cam pins so as to bring the stripper rubber assembly tightly proximate to the adapter for a fluid-tight seal.
9. The connector of claim 1, wherein the adapter comprises metal.

10. A system for connecting and disconnecting a stripper rubber to drilling head equipment, the system comprising:

drilling head equipment adapted for connection to an adapter;

a stripper rubber comprising one more inserts, at least one insert being adapted to receive one or more cam pins;

an adapter between the equipment and the stripper rubber and connected to the equipment, the adapter comprising one or more cam pin bores and one or more cam lock bores wherein each pin bore intersects a lock bore to form an aperture;

one or more cam pins attached to the stripper rubber insert, wherein the cam pins fit into the pin bores of the adapter; and

one or more at least partly rotatable cam locks disposed within the cam lock bores of the adapter wherein the cam locks optionally lockingly engage the cam pins through the aperture upon rotation to a locked position to connect the stripper rubber to the equipment, and wherein the cam locks optionally disengage the cam pins through the aperture upon rotation to an unlocked position to disconnect the stripper rubber from the equipment.

11. The connector of claim 10, wherein the cam pins further comprise a threaded end and a body end, whereby the cam pins optionally

threadedly attach to the stripper rubber assembly at the threaded end and insert into the cam pin bores of the adapter at the body end.

12. The connector of claim 10, wherein the stripper rubber comprises an insert at least partially embedded in the stripper rubber, wherein the cam pins engage the insert of the stripper rubber.
13. The connector of claim 10, wherein the equipment comprises a bearing assembly.
14. The connector of claim 10, further comprising a seal between the adapter and the stripper rubber assembly or the equipment.
15. The connector of claim 10, wherein the cam lock bores are substantially perpendicular to the cam pin pores.
16. The connector of claim 10, wherein the cam lock bores are oriented obliquely to the cam pin bores.
17. The connector of claim 10, further comprising biased cam locks that engage the cam pins so as to bring the stripper rubber tightly proximate to the adapter for a fluid-tight seal.
18. The connector of claim 10, wherein the adapter comprises metal.
19. A method for connecting a stripper rubber to drilling head equipment of a well, the comprising the steps of:

providing drilling head equipment adapted for connection to an adapter;

providing a stripper rubber comprising one more inserts, at least one insert being adapted to receive one or more cam pins;

providing an adapter between the equipment and the stripper rubber and connected to the equipment, the adapter comprising one or more cam pin bores and one or more cam lock bores wherein the pin bores intersect the lock bores to form an aperture;

providing one or more cam pins attached to the stripper rubber insert, the cam pins being disposed in the cam pin bores of the adapter;

providing one or more at least partly rotatable cam locks disposed within the cam lock bores of the adapter; and

rotating the cam locks to optionally lockingly engage the cam pins through the aperture to connect the stripper rubber to the equipment.

20. The method of claim 1, further comprising the step of optionally rotating the cam lock to disengage the cam locks from the pins through the aperture to disconnect the stripper rubber from the equipment.
21. A system for selectively connecting or disconnecting a first structural member to or from a second structural member, the system comprising:

a first structural member having a first end and a second end, the first structural member comprising one or more cam pins extending longitudinally from the first end;

a second structural member having an exterior and a first end and a second end, the second structural member comprising:

one or more cam pin bores longitudinally recessed in the first end and adapted to receive the one or more cam pins of the first structural member; and

one or more cam lock bores having an exterior opening and oriented at an angle to at least one cam pin bore and positioned to partially intersect the cam pin bore to form an aperture; and

at least one, at least partially rotatable, cam lock having a head and disposed within a cam lock bore so that the head is exposed to the exterior opening of the cam lock bore, whereby the cam lock engages a corresponding cam pin through the aperture upon optional rotation to an engaged position, and disengages the corresponding cam pin upon optional rotation to a disengaged position, wherein the first and second structural members are selectively connected when at least one cam lock is in an engaged position and are selectively disconnected when none of the one or more cam locks are in an engaged position.